

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/06/04

Date Received: 04/15/04

Project: Metro Self Monitor, PO# M93122, F&BI 404138

Date Extracted: 04/29/04

Date Analyzed: 05/04/04

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M93122 404138-01	0.25	0.24	0.12	<0.05
Method Blank	<0.05	<0.05	<0.10	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/06/04

Date Received: 04/15/04

Project: Metro Self Monitor, PO# M93122, F&BI 404138

QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 404280-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.35	0.37	6	0-20
Copper	mg/L (ppm)	0.47	0.49	4	0-20
Nickel	mg/L (ppm)	0.39	0.39	0	0-20
Zinc	mg/L (ppm)	<0.05	<0.05	nm	0-20

Laboratory Code: 404280-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	Acceptance Criteria
Chromium	mg/L (ppm)	2	0.35	90	80-120
Copper	mg/L (ppm)	2	0.47	98	80-120
Nickel	mg/L (ppm)	4	0.39	92	80-120
Zinc	mg/L (ppm)	2	<0.05	95	80-120

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	Acceptance Criteria
Chromium	mg/L (ppm)	2	112	80-120
Copper	mg/L (ppm)	2	111	80-120
Nickel	mg/L (ppm)	4	108	80-120
Zinc	mg/L (ppm)	2	100	80-120

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

404138

SAMPLE CHAIN OF CUSTODY

CM 04/15/04

BT,

Send Report To

Company

Address

City, State, ZIP

Phone #

Fax #

SAMPLERS (Signature)

PROJECT NAME/NO.

PO #

REMARKS

Page # _____ of _____

TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes			
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS								
M93122	01	4/15/04	10:00	H2O	1								X-C1, C2, nC4, nC5, nC6						
															</				

Friedman & Bruya, Inc.
3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COC.DOC

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Received by:

Relinquished by:

Received by:

GERARD Thompson

Nhan Phan

ACW

FBI

4/15/04 11:04

4/15/04 11:04

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

May 6, 2004

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

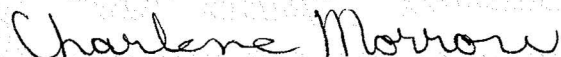
Dear Mr. Thompson:

Included are the results from the testing of material submitted on April 15, 2004 from the Metro Self Monitor, PO# M93122, F&BI 404138 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Charlene Morrow
Chemist

Enclosures
ACU0506R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
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Bradley T. Benson, B.S.
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TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

May 6, 2004

DUPLICATE COPY

INVOICE # 04ACU0506-4

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M93122, F&BI 404138 - Results of testing
requested by Gerry Thompson for material submitted on April 15, 2004.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 6010B @ \$80 per sample	\$ 80.00
Amount Due	\$ 80.00

FEDERAL TAX ID # (b) (6)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/06/04

Date Received: 04/22/04

Project: Metro Self Monitor, PO# M104108, F&BI 404210

Date Extracted: 04/29/04

Date Analyzed: 05/04/04

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M104108 404210-01	0.34	0.44	0.33	0.06
Method Blank	<0.05	<0.05	<0.10	<0.05

FRIEDMAN & BRUYA, INC.**ENVIRONMENTAL CHEMISTS**

Date of Report: 05/06/04

Date Received: 04/22/04

Project: Metro Self Monitor, PO# M104108, F&BI 404210

**QUALITY ASSURANCE RESULTS
FROM TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Laboratory Code: 404280-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.35	0.37	6	0-20
Copper	mg/L (ppm)	0.47	0.49	4	0-20
Nickel	mg/L (ppm)	0.39	0.39	0	0-20
Zinc	mg/L (ppm)	<0.05	<0.05	nm	0-20

Laboratory Code: 404280-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	Acceptance Criteria
Chromium	mg/L (ppm)	2	0.35	90	80-120
Copper	mg/L (ppm)	2	0.47	98	80-120
Nickel	mg/L (ppm)	4	0.39	92	80-120
Zinc	mg/L (ppm)	2	<0.05	95	80-120

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	Acceptance Criteria
Chromium	mg/L (ppm)	2	112	80-120
Copper	mg/L (ppm)	2	111	80-120
Nickel	mg/L (ppm)	4	108	80-120
Zinc	mg/L (ppm)	2	100	80-120

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

404210

SAMPLE CHAIN OF CUSTODY

CM 04/22/04

BI

Send Report To

G. Thompson

Company

Alaskan Copper Works

Address

628 S. Harvard St

City, State, ZIP

Seattle WA 98134

Phone #

206-382-8379

Fax #

206-382-4309

SAMPLERS (signature)

PROJECT NAME/NO.

METRO Self monitor

PO #

M104108

REMARKS

Page # of

TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Ag Cy nt, 220				
M104108	01	4/22/04	12:30	H2O	1											

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Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COCC\COCC100

SIGNATURE

Relinquished by:

Received by:

Relinquished by:

Received by:

PRINT NAME

G. Thompson

Nhan Phan

COMPANY

Aew

F+BI

DATE

4/22/04

4/22/04

TIME

1:30pm

1:30

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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May 6, 2004

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

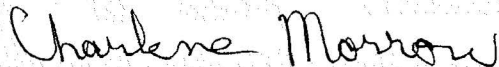
Dear Mr. Thompson:

Included are the results from the testing of material submitted on April 22, 2004 from the Metro Self Monitor, PO# M104108, F&BI 404210 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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Sincerely,

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Charlene Morrow
Chemist

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May 6, 2004

DUPLICATE COPY

INVOICE # 04ACU0506-5

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M104108, F&BI 404210 - Results of testing
requested by Gerry Thompson for material submitted on April 22, 2004.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 6010B @ \$80 per sample	<u>\$ 80.00</u>
Amount Due	\$ 80.00

FEDERAL TAX ID # (b) (6)